



311th HUMAN SYSTEMS WING HUMAN SYSTEMS PROGRAM OFFICE



**BROOKS AIR FORCE BASE
SAN ANTONIO, TEXAS**



Human Systems Program Office

Supporting the most important system the Air Force will ever field . . .

Human System



Col Albert Burnett
Program Director
(Since Mar 02)

311 HSW/YA
7980 Lindbergh Landing
Brooks City-Base, TX
78235-5119
Telephone: (210) 536-3475
DSN: 240-3475



OVERVIEW



- **Program Office Overview / Circle of Life**
- **Facilities**
- **Life Sciences Laboratory Missions**
- **Personnel Accounting Mission Process**



SPO Mission



Maximize the combat power and survivability of the warfighter through the acquisition and sustainment of life support, NBC, aeromedical equipment and medical information systems.



Never Forget

Welcome to the Air Force

Making Warriors



Multiplying Combat Power

A Safer Force & New Requirements



Mishap Investigation:
* Lessons Learned
* Safer Systems



Analyses:
* POW/MIA artifacts
* Materials Lab
* Ranch Hand

Closure:
* Archives



Induction:
Uniforms
* Blues
* BDUs



Warrior:
* Flight Suits
* Helmets

Combat Power:
* Anti G-loc
* Laser Eye Protection
* Night Vision



Protection:
* Chem-Bio Protection
* Positive Pressure Breathing



CBRN Protection:
* Detectors
* Suits & Masks
* Enclosures



Increasing the Envelope

FedEx for Patients



Transporting/Tracking Patients
* Reserve Air * Medical Info Systems

Aeromedical:
* Hospitals
* Spinal Cord Transport
* Oxygen Generation



Life Support:
* Ejection Seats
* Parachutes
* Life Rafts
* Survival Radios



Over 10,000 items

Safe Transport for Wounded

Safety Through Sustainment

Protecting the Troops

U.S. AIR FORCE

CIRCLE OF LIFE



Organization

Human Systems Program Office

Military	92
Civilian	172
Contractors	82
Total	346

311 HSW/YA
Col Al Burnett - Systems Program Director
Mr Vern Jauer - Deputy

Chief Engineer
(Mr Strahan)

Business Office
(Mr Hudgins)

Chemical, Biological, Radiological
and Nuclear (CBRN) Defense Division
(Lt Col Turack)

Aircrew Protection (AP) Division
(Lt Col Coleman)

Aeromed & Info Systems Division
(Col Berry)

Product Support Division
(Lt Col Jackson)

Contamination Avoidance Branch
(Mr Martinez)

Protection Branch
(Mr Manchester)

Decontamination Branch
(Maj(S) Wyms)

Battle Management Branch
(Capt Riche)

AP Acquisition Branch
(Mr Gough)

AP Sustainment Branch
(Ms Merchant)

AP Liaison Branch
(CMSgt King)

Life Sciences Equipment Lab
(Mr Smith)

Materials Lab
(Ms Gonzales)

Aeromedical IPT
(Lt Col Shackelford)

TRAC2ES IPT
(Maj Owen)

Medical C4I Branch
(Capt Jones)

Aeromedical Test Branch
(Maj Driessen)

Aeromedical Consult
(Col Tong)

Contracting
(Lt Col Kean)

Financial Management
(Mr Zingler)

Logistics
(Lt Col Jackson)

Program Management
(Mr Ogershok)

Requirements (Maj Gracia)



Professions



Human Systems Program Office

Acquisition Manager

Aeromedical Nurse/
Technician

Aerospace Medicine/
Physiologist

AF CBRN Subject Matter Expert
Disaster Preparedness
CBRN Analyst

Aircrew Life Support
Technician

Avionic Systems Technician

Chemist

Computer Systems Operator

Contracting Officer

Cost Analyst/
Financial Manager

Engineer

Developmental
Systems
Test
Electrical
Software
Bio-Medical

Fashion Designer/Tailor

Flight Surgeon

Health Services
Administrator

Health Services
Manager

Information Manager

Logistics Planner

Maintenance Data
Systems Manager

CBRN Medical Advisor

Non-Destructive
Inspection

Supply Manager

Survival Equipment
Specialist



LIFE SCIENCES EQUIPMENT LABORATORY & LIFE SCIENCES ARTIFACT SECTION

SUPPORT TO THE DOD PERSONNEL
ACCOUNTABILITY MISSION



LIFE SCIENCES EQUIPMENT LABORATORY MISSION



- POW/MP PERSONNEL ACCOUNTABILITY
- CURRENT DAY MISHAP ANALYSIS AND SUPPORT
- FIELD INVESTIGATIVE TECHNIQUES TRAINING
- TECHNICAL AND SCIENTIFIC SUPPORT TO SPO PROGRAMS



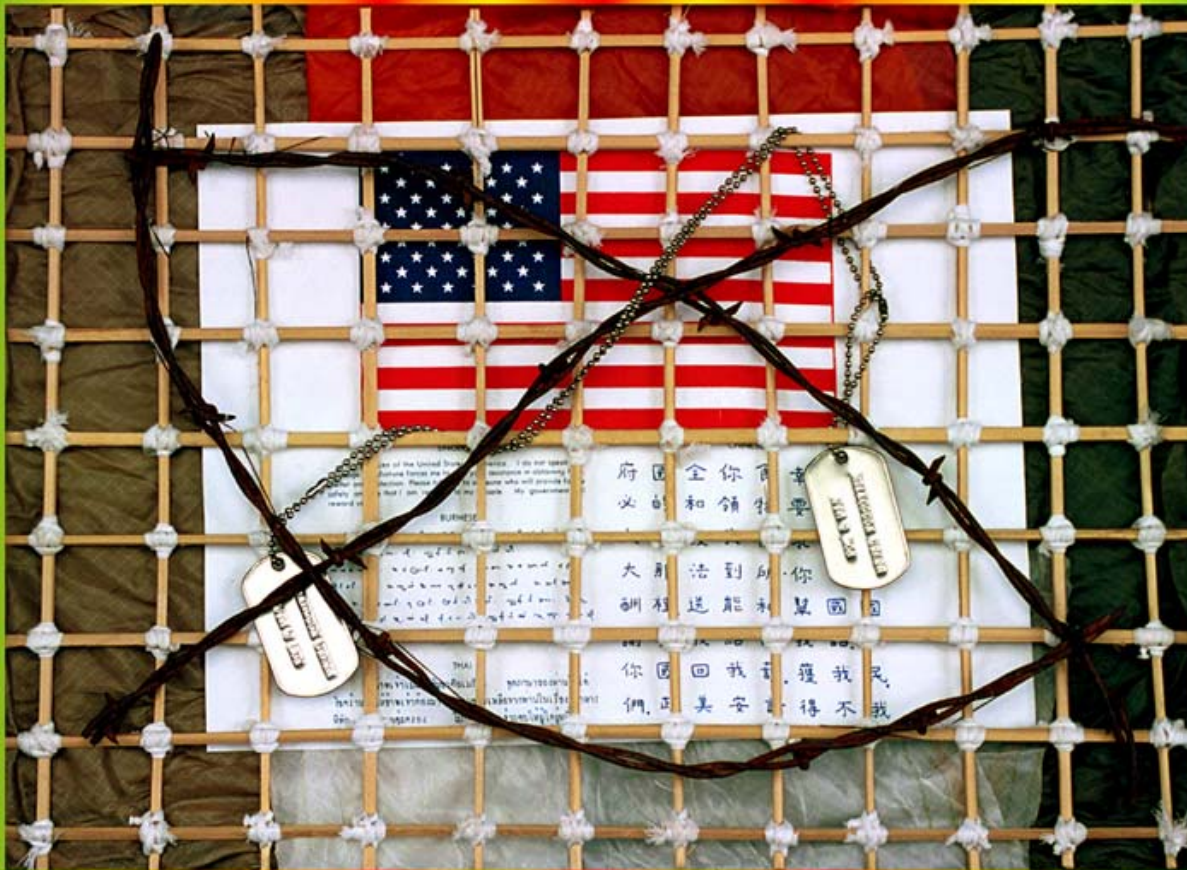
CURRENT DAY MISSION



SUPPORTING THE WARFIGHTER IN A VARIETY OF ENVIRONMENTS, MISSIONS, ROLES



POW/MP ACCOUNTABILITY MISSION SUPPORT





CILHI AND JTF-FA PERSONNEL AT AIRCRAFT EXCAVATION SITE





RECOVERED ARTIFACTS FORWARDED TO LSEL FOR FURTHER ID/ANALYSIS





LSEL ANALYSIS FOCUSED ON VIETNAM ERA AIRCRAFT/AIRCREW LOSSES FROM ALL SERVICES





WORLD WAR I, WORLD WAR II, KOREA COMBAT GROUND FORCES EQUIPMENT REFERENCE CAPABILITY





MANNEQUINS ATTIIRED IN PERIOD UNIFORMS AND EJECTION SEAT DISPLAYS





FIXED AND EJECTION SEAT EXAMPLES AND OTHER LIFE SUPPORT ITEMS



200+ EXAMPLES



EJECTION SEAT REFERENCE





COCKPIT REFERENCE EXAMPLES





COMPLETE COCKPITS





REFERENCE MATERIAL



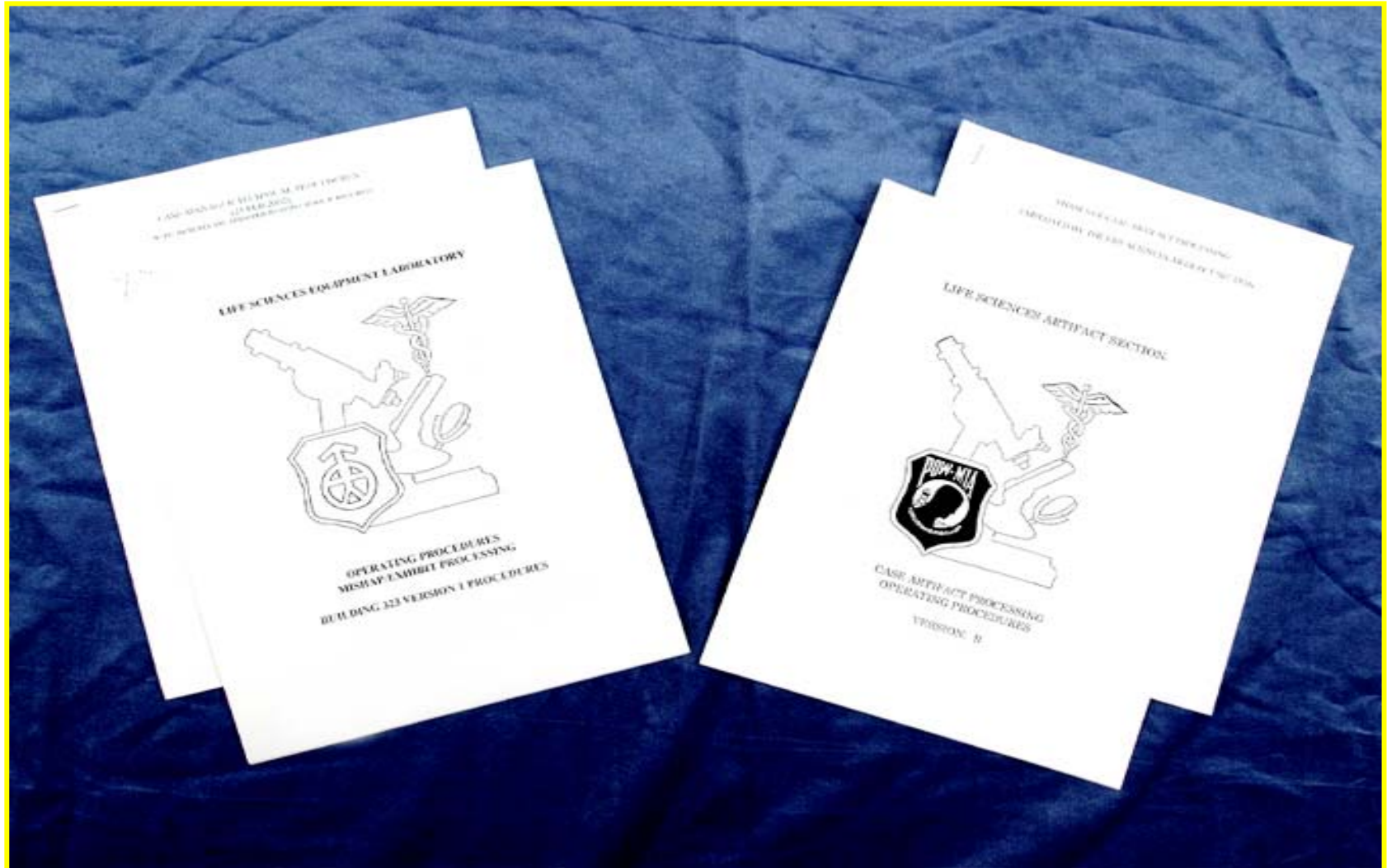


REFERENCE MATERIAL





POW/MP ACCOUNTABILITY MISSION PROCESS





CASE PROCESSING PROCEDURES



1. INITIAL CASE RECEIPT
2. INITIAL CASE/ARTIFACT REVIEW
3. DETAILED ARTIFACT REVIEW
4. NON-DESTRUCTIVE REVIEW
5. MOSAIC / OVERLAY STUDY
6. ID OF PRIMARY ARTIFACTS



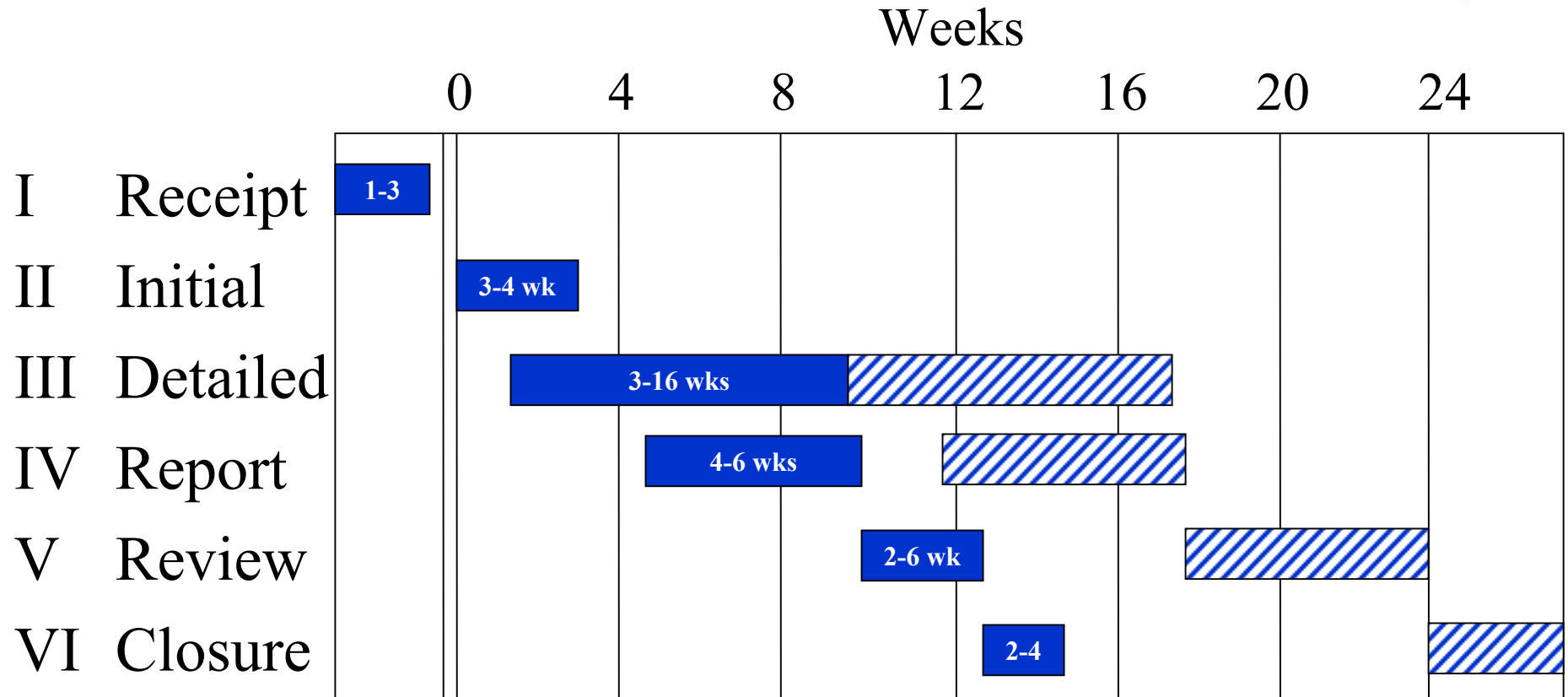
PROCESSING PROCEDURES CONT'D



7. OVERSIGHT REVIEW
8. FINAL PHOTOGRAPHY SELECTION
9. DRAFT / FINAL REVIEW
10. APPROVAL / SIGN OFF
11. PLACE ON WEB SITE
12. CASE CLOSURE AND ISSUANCE



Investigation Phases Timeline



Average Case

2-6 wk

Large Case





RECEIVING AND RECORDING CASE ARTIFACTS





RECONCILIATION OF ARTIFACTS TO CUSTODY DOCUMENTS





LOGGING CASE DETAILS INTO COMPUTER DATABASE





INITIAL CASE FAMILIARIZATION AND PROCESSING





REVIEW OF ARCHIVED TECHNICAL & FLIGHT MANUALS





SORTING ARTIFACTS INTO ENSEMBLE GROUPINGS





INITIAL PHOTOGRAPHY OF ARTIFACT RECEIPT CONDITION





PLACING ARTIFACT ONTO AREA OF ORIGINATION







MATCHING ARTIFACTS TO ARCHIVED DRAWINGS





COMPARATIVE ANALYSIS AND PHYSICAL MATCHING OF A RECOVERED ARTIFACT TO A MASTER REFERENCE USAF FLIGHT HELMET, TYPE HGU-2A/P





THE RECOVERY AND IDENTIFICATION OF BOOT ARTIFACTS IS VERY SIGNIFICANT, AS THE PRESENCE OF PERSONNEL AT THE RECOVERY SITE ALONG WITH ANY SERVICE RELATED USAGE, CAN BE FIRMLY ESTABLISHED





RECOVERED PARACHUTE HARNESS HARDWARE
ARTIFACTS ARE MATCHED TO REPRESENTATIVE
HARDWARE ITEMS TO CONFIRM IDENTITY, PRESENCE
OF PERSONNEL, A POTENTIAL USAGE TIMEFRAME,
SERVICE OR AIRCRAFT APPLICABILITY, ETC.



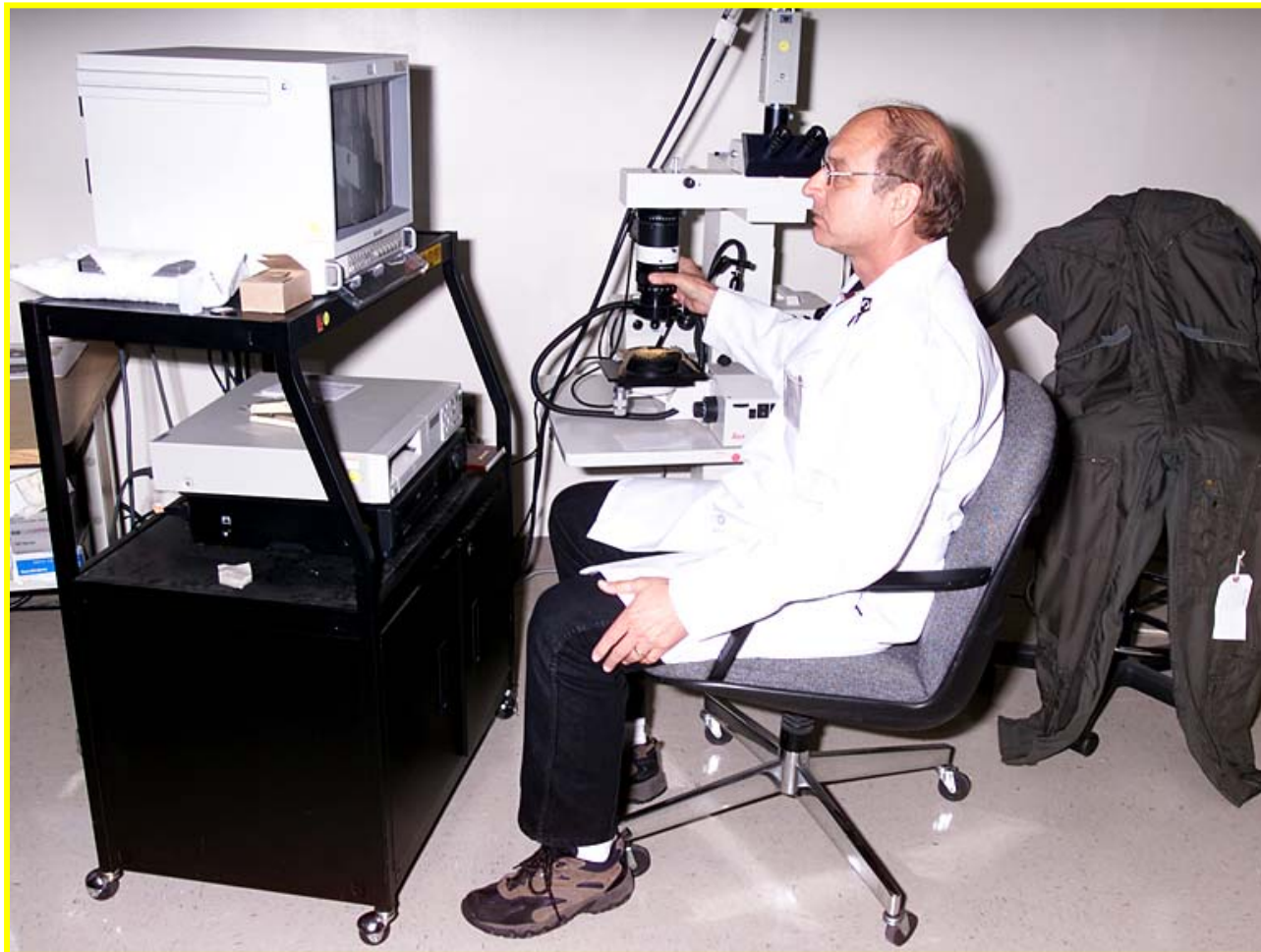


IN-DEPTH MICROSCOPIC ANALYSIS OF THE ARTIFACTS





COMPARATIVE MACROSCOPIC ANALYSIS OF ARTIFACTS





MATERIALS LAB CHEMIST ANALYZING ARTIFACT SAMPLES





ARTIFACTS PHOTOGRAPHY FOR REPORT





ARCHIVED HISTORICAL DOCUMENTATION RESEARCH





PHASE IV CONCLUSION - PRELIMINARY EXECUTIVE SUMMARY ISSUED



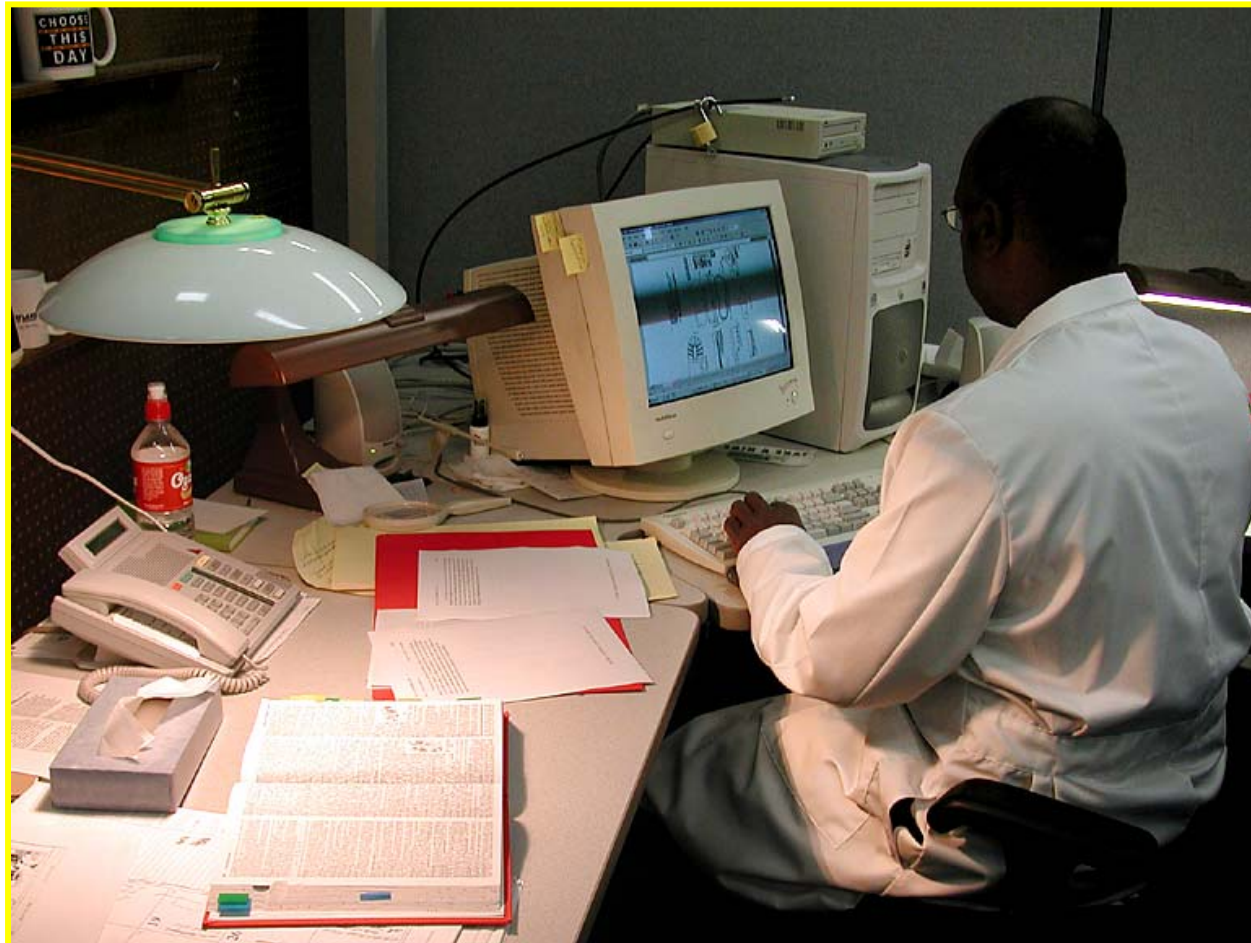
EXECUTIVE SUMMARY PRELIMINARY FINDINGS (DD/MM/YYYY)

Summary:

1. Based upon information provided to the Life Sciences Equipment Laboratory, REFNO Case XXXX pertains to the loss of a USAF F-4D (65- 0001) on xx September 19xx in Thailand, which left two crewmen unaccounted for.
2. On 16 October 1999, the case artifacts were received by the Life Sciences Equipment Laboratory and placed into temporary storage. On 1 November 20xx, extensive studies commenced on the case artifacts by analysts assigned to the Life Sciences Artifact Section.
3. Artifact evidence supports the involvement and loss of a USAF F-4 series aircraft, with two crewmembers being present at the recovery site, based upon the recovered/submitted life sciences equipment artifacts.
4. Based upon the identified presence of artifacts/equipment recovered from two different sites, located approximately 300 feet apart, strongly suggests that there was an unsuccessful attempt by the rear cockpit/seat crewmember to eject moments before crash impact.



WRITING THE REPORT





REPORT ASSEMBLY



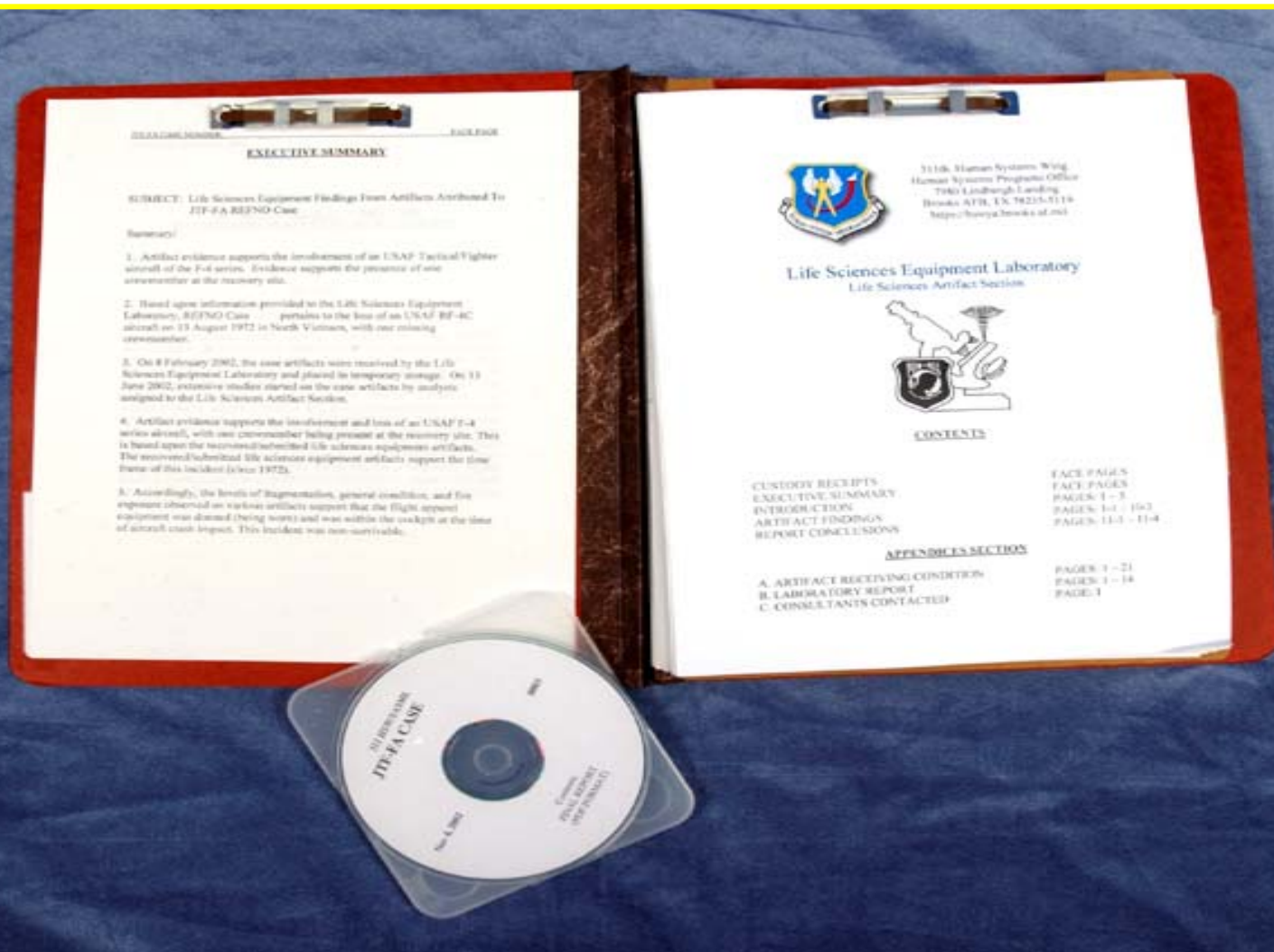


SCANNING FOR PLACEMENT ON WEB SITE





FINAL REPORT AND CD





POINTS OF CONTACT



Deputy Division Chief,
Aircrew Protection Division

linda.hamilton@brooks.af.mil
210-536-5029
DSN: 240-5029

Chief, Life Sciences Equipment Laboratory:

jc.smith@brooks.af.mil
210-536-4722
DSN: 240-4722

Senior Analyst, Life Sciences Artifact Section:

john.goines@brooks.af.mil
210-536-3796
DSN: 240-3796



Q & A